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Wang

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(54) **V-PULLEY MANUFACTURING PROCESS**

(71) Applicant: **Jinfang Wang**, Zhejiang (CN)

(72) Inventor: **Jinfang Wang**, Zhejiang (CN)

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Primary Examiner — Sarang Afzali
(74) *Attorney, Agent, or Firm* — Tim Tingkang Xia, Esq.; Locke Lord LLP

(57) **ABSTRACT**

A process for manufacturing a V-pulley is disclosed. A metallic cylindrical pulley blank is integrally formed by removing material of a circumferential surface of the pulley blank to form a plurality of circumferential V-belt grooves. The pulley blank is subjected to precision machining and shot blasting to form a rough shot blasting layer on the side surfaces of the V-belt grooves. At least one through hole is axially drilled along a longitudinal central axis of the pulley blank from one axial end to opposite axial end of the shot blasted pulley blank to fluidly connect all of plurality of V-belt grooves followed by mounting and fastening a mold for casting tooth rings at the bottoms of the plurality of V-belt grooves and receiving a metal casting fluid into the plurality of V-belt grooves from one end portion of the through hole to form the tooth rings.

9 Claims, 2 Drawing Sheets